

Solution Transfer Modes in VLabs

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Learning Objectives

In this tutorial we will learn about,

- ▶ **3 different modes of solution transfer in Vlabs:**
 - ▶ **Precise transfer**
 - ▶ **Significant transfer**
 - ▶ **Realistic transfer**

System Requirements

- ▶ **Ubuntu Linux OS v22.04**
- ▶ **ChemCollective Virtual labs v2.1.0**
- ▶ **Java v11.0.5**
- ▶ **A working internet connection**

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Pre-requisites

To follow this tutorial,

- ▶ **learners must be familiar with the ChemCollective Virtual labs interface**

Precise Transfer

- ▶ **Precise transfer mode is used to transfer precisely upto second decimal point**
- ▶ **Precise transfer mode can be used for transfer of both solids and liquids**

Significant Transfer

- ▶ **Significant transfer is used to transfer liquids from or to the glassware which hold a definite volume of liquid**



Significant Transfer

- ▶ **This mode is used when glassware such as pipette, burette or measuring cylinder are used to transfer liquids**
- ▶ **It can only transfer the maximum amount of liquid the glassware can hold**



Realistic Transfer

- ▶ In realistic transfer mode, solutions are transferred by holding down the **Pour** button
- ▶ The longer the **Pour** button is held down the greater volume of solution is transferred

Summary

We have learned about,

- ▶ **3 different modes to transfer solutions in Vlabs**
 - ▶ **Precise transfer**
 - ▶ **Significant transfer**
 - ▶ **Realistic transfer**



Assignment

- ▶ **Practise the transfer of solutions using various transfer modes demonstrated in the tutorial**



Thank you

